

**Non-linear distortion correction appts. for amplifier partic. for satellite communications - separates incoming signal to two electronic circuits which reflect signals for recombination**

Publication number: FR2696295

Publication date: 1994-04-01

Inventor: SINGH BHARJ JASPAL

Applicant: EUROP AGENCE SPATIALE (FR)

Classification:

- International: H03F1/32; H03F1/32; (IPC1-7): H03F1/32; H03F3/20

- european: H03F1/32P

Application number: FR19920011578 19920929

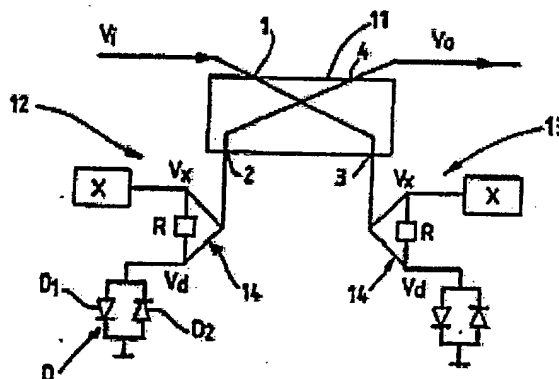
Priority number(s): FR19920011578 19920929

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**Abstract of FR2696295**

The incoming signal ( $V_i$ ) is fed to a separation-combination circuit (11) where the signal is divided between two ports (2,3) each connected to an electronic circuit (12,13). The circuits comprise three branches. The first branch is connected to a port (2,3), the second branch is connected to a variable reactance (X) and the third branch is connected to a nonlinear network such as diodes connected in parallel. The electronic circuits reflect signals back to the separation-combination circuit, where they are recombined to form an output signal ( $V_o$ ) with reduced distortion.

USE/ADVANTAGE - Reduction of non-linear amplitude and phase distortion produced by amplifiers in telecommunications. Uses fewer components than existing techniques.



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